251-155

Indice sistematico per numeri successivi del periodico

205

QC
1
L462

N. 1 7 Maggio 1983

pag.

1 S. Minami – Glueballs and a tensor dominance model.

5 L. S. Caputi and G. Luzzi – Free-sulphur presence in steels.

9 F. Calogero – Computation of Sturm-Liouville eigenvalues via Lagrangian interpolation.

17 H. Sakuyama and N. Suzuki – Evidence for a new stable particle with heavy mass around 10^{17} eV.

21 S. Iwao – Evaporation, annihilation and strong decays of long-lived quarkonia as finite-to-null and null-to-finite temperature processes.

28 N. G. Antoniou, N. D. Tracas and S. D. P. Vlassopulos – Possible absorptive corrections in hard-scattering processes at very high energies.

N. 2 14 Maggio 1983

pag.

33 J. Blandin, R. Pons, J. Skinazi and G. Marcilhacy – General solution of the Clemmow equation in a three-dimensional cold plasma, with a zero-velocity stream.

39 R. Bonifacio and F. Casagrande – A model for superradiance and superfluorescence in free-electron lasers.

48 G. Rosen – Spatial rotations, electromagnetic gauge transformations and the fine-structure constant.

51 T. Datta – The fine-structure constant, magnetic monopoles and Dirac charge quantization condition.

55 E. M. Santangelo – Q^2-, x_B- and W^2-dependence of hadron multiplicities and the Pati-Salam model.

61 G. De Franceschi, F. Palumbo and N. Lo Iudice – Two-rotor model of deformed nuclei

66 F. Falciglia, A. Garuccio, G. Iaci and L. Pappalardo – Optical-transmittance measurement metod in the FOCA2 experiment.

71 C. Bergonzoni, G. Lo Vecchio and G. Morandi – Spin glasses with RKKY-type interactions; numerical studies on small sample,

77 Y. Srivastava and A. Widom – Critical-voltage law for chiral particle production near a monopole.

N. 3 21 Maggio 1983

pag.

81 F. Palumbo – Quantization of Galilean gauge theories.

86 P. du T. van der Merwe – The hydrogen atom as prototype of the large-N expansion.

pag.
89 M. Macchiato and A. Tramontano – Markov analysis of alpha-helical, beta-sheet and random coil regions of proteins.
95 S. Sakai – Chiral property of the generalized Gross-Neveu model with $U_N \times U_N$ flavour chiral symmetry in $1+1$ dimensions.
99 H. Minowa and N. Mishima – An analysis of Smoluchowski equation for sedimentation.
105 S. De Filippo, M. Salerno, G. Vilasi and G. Marmo – Phase manifold geometry of Burgers hierarchy.
111 G. C. Yang, H. C. Liu and L. F. Luo – A derivation of the Cabibbo angle and quark-lepton masses from a composite model.
116 J. L. Reid and P. B. Burt – Generalized field theories and solutions.
119 P. Siafarikas, A. Jannussis, G. Brodimas and L. Papaloucas – q-Algebras without interaction.
124 M. F. Marziani – A connection between Borel and Padé summation techniques.

N. 4 28 Maggio 1983
pag.
129 A. Scalia – Heavy-ion elastic scattering and its connections with fusion and absorption processes.
135 J.-M. Frère and J.-M. Gérard – Axions and supersymmetry.
142 T. L. Chow – Quantized synchrotron radiation as a cause of γ-ray bursts.
145 J. Gea-Banaloche, K. Cahill, D. Rossbach and A. Comtet – Energy loss by slow magnetic monopoles.
149 G. Contopoulos – Inverse Feigenbaum bifurcations in Hamiltonian systems.
156 A. Smailagic – Superconformal current multiplet.

N. 5 4 Giugno 1983
pag.
161 M. Schmutz – Construction of functional integrals for bosons and fermions from Liouville space.
165 Ph. Droz-Vincent – Effective potential for gravity in flat space-time.
169 H. Aspden – The determination of absolute gravitational potential.
173 J. Stehr and P. Weisz – Note on gauge fixing in lattice QCD.
178 S. K. Ghosh, A. Panatta, A. Ricchiuto and P. L. Indovina – Orientational order of two spin probe molecules in para-azoxyanisole.
183 Peng Hong-an, Li Jia-rong and Qiu Zhong-ping – High-energy $\gamma e \to W\nu$ process with circular polarized photons and the magnetic moment of $W^{\pm}$-bosons.
188 G. Ziino – Actual compatibility between three-dimensional time conjecture and experienced Doppler effect.

N. 6 11 Giugno 1983
pag.
193 A. Cunsolo, A. Foti, G. Immè, G. Pappalardo, G. Raciti and N. Saunier – States in ^{18}O at high excitation energy.
200 B. H. Lavenda – Exact solution to Kramers' problem of the escape across a potential barrier in the limit of small resistance.
205 M. Carmeli – The mass-energy formula in the angular-momentum representation.

pag.
210 H. Aspden – The nature of the muon.
215 E. Ficocelli Varracchio – New quantum approach to the Stark effect.
221 W. Konetschny – Algebraic suppression of rare processes in extended technicolor.
225 M. Kibler and T. Negadi – On the connection between the hydrogen atom and the harmonic oscillator.
229 J.-P. Lebrun – Covariant dyon spinor field.
231 M. Halilsoy – Similarity solution for the Ernst equation with electromagnetic fields.
236 S. Dubnička – An analysis of the third Soviet-American pion form factor data gives no support for the existence of $\rho'(1250)$.

N. 7 18 Giugno 1983
pag.
241 T. F. Nonnenmacher and J. D. F. Nonnenmacher – Soliton solutions for a generalized Madelung fluid.
246 J. Berbiers, G. Bonvicini, G. Cara Romeo, L. Cifarelli, A. Contin, M. Curatolo, G. D'Alí, C. Del Papa, B. Esposito, P. Giusti, T. Massam, R. Nania, F. Palmonari, G. Sartorelli, G. Susinno, L. Votano and A. Zichichi – Studies of two-particle correlation in rapidity space in (pp) collisions at $(\sqrt{s})_{pp} = 30$, 44 and 62 GeV.
255 M. Basile, J. Berbiers, G. Bonvicini, G. Cara Romeo, L. Cifarelli, A. Contin, M. Curatolo, G. D'Alí, C. Del Papa, B. Esposito, P. Giusti, T. Massam, R. Nania, F. Palmonari, G. Sartorelli, G. Susinno, L. Votano and A. Zichichi – A study of possible new heavy-flavour production at the CERN $(p\bar{p})$ collider.
267 Y. N. Srivastava and A. Widom – Has proton had time enough to decay?
271 E. B. Manoukian – All-order treatment of the electron propagator near the mass shell in QED.
275 D. S. Kulshreshtha – The form factors of π and K mesons at large momentum transfer squared.
279 G. Calvi, M. Lattuada, F. Riggi, C. Spitaleri, D. Vinciguerra and D. Miljanić – Quasi-free scattering and α-d clustering probability in ^{6}Li.
284 M. Akano – Masses of fundamental bosons as composites.

N. 8 25 Giugno 1983
pag.
289 G. Bonvicini, G. Cara Romeo, L. Cifarelli, A. Contin, M. Curatolo, G. D'Alí, C. Del Papa, B. Esposito, P. Giusti, T. Massam, R. Nania, G. Sartorelli, G. Susinno, L. Votano and A. Zichichi – Evidence for the same inclusive fractional-energy distributions in soft (pp) interactions and in (μp) deep inelastic scttering.
295 H. Kleinert – Disclinations as origin of first-order transitions in melting.
300 G. Marcilhacy – On the Teukolsky equation.
303 L. Calcagno, G. Foti and G. Strazzulla – Carbon build-up by fast protons on silicon substrate in CH_4 atmosphere.
307 H. Aspden – Theoretical resonances for particle-antiparticle collisions based on the Thomson elctron model.

pag.
312 O. Filisetti, G. Lovera and V. Mussino – Correlation of cosmic-ray intensity with geomagnetic *Kp* index and solar-magnetic-field reversal.
315 A. P. Yefremov – Quaternionic multiplication rule as a local Q-metric.
317 G. Paiano – Eigenvalues of a harmonic oscillator in the ultrarelativistic limit.

N. 9 2 Luglio 1983
pag.
321 S. Giambò – Sur l'exceptionnalitè stricte pour un fluide relativiste conducteur de chaleur.
325 O. P. S. Negi and B. S. Rajput – Quaternionic formulation for electromagnetic-field equations.
330 R. Jones – Cross field diffusion of a hollow magnetoplasma.
333 J. Rayski and J. M. Rayski jr. – A supersymmetric ($N = 8$) classification of elementary particles in eleven dimensions.
337 R. M. Santilli – A possible, Lie-admissible, time-asymmetric model for open nuclear reactions.
345 E. Recami and G. D. Maccarrone – Are classical tachyons slower-than-light *quantum* particles?

N. 10 9 Luglio 1983
pag.
353 S. Azam, Y. Nogami and N. Ohtsuka – Short-range rpulsive three-body force and the point proton density of ^{3}He.
357 S. Iwao – $U_{6/2}$ dynamical supersymmetry in baryons.
361 E. E. Caianiello, G. Marmo and G. Scarpetta – Geodesic and Hamiltonian equations in quantum geometry. The identification problem.
365 R. Goldoni – Kepler and two-body problems in bimetric Machian gravitation.
369 P. P. Delsanto, L. C. Biedenharn, M. Danos and S. Tuan – Some theoretical considerations on the $\sigma(\gamma, p)/\sigma(\gamma, n)$ ratio in ^{4}He.
375 L. Lanotte and C. Luponio – Improved model for thermal treatment of metallic ribbons by continuous laser source: application to amorphous metals.
380 S. de Lillo and P. Sodano – Kink-size–dependent bound states in modified sine-Gordon models.

N. 11 16 Luglio 1983
pag.
385 T. Kitamura and H. Umezawa – A possibility of a lattice form in the broken-phase symmetry state.
391 J. Anandan and B. Lesche – Interferometry in a space-time with torsion.
399 H. Nakata – Another method of analysing charge asymmetry data for $e^+e^- \to \mu^+\mu^-$.
403 T. Samanta, D. Sperber and M. Zielinska-Pfabe – Microscopic treatment of Pauli blocking in strongly damped collisions.
409 A. Drago – Dimensional theory and constructive mathematics.
413 A. Delunas, V. Maxia, S. Serci, R. Pinna and G. Ponticelli – A resonant γ-ray study of Fe (III) benzoxazole complexes.

N. 12 23 Luglio 1983

pag.

417 A. Sasso and E. Arimondo - Double-resonance line shapes in the presence of ATE, RATE and laser standing wave.

425 H. Kleinert – Relation between U_1 lattice gauge theory and defect melting.

430 M. Giffon and E. Predazzi – Quantum mechanics and high-energy physics.

433 M. Bartuccelli, P. Pantano and T. Brugarino – Two-dimensional Burgers equation.

439 A. Agodi and E. Turrisi – A preliminary-information theoretic analysis of seismic data on the Calabria and Sicily regions.

446 D. Thangaraj and S. N. Venkatarangan – Complementary variational principles for generalized Euler-Poisson-Darboux equations.

N. 13 30 Luglio 1983

pag.

449 M. Razavy – Second quantization in a box with a moving wall.

454 M. Yussouff – Comments on microscopic mechanics, generalizations of classical mechanics and Planck's oscillators.

459 C. G. Koutroulos – An alternative study of the propagation of the Rarita-Schwinger wave equation in the presence of an external electromagnetic field.

462 C. G. Koutroulos – On the Shamaly-Capri wave equation for spin-1 particles.

465 R. A. Buchl and B. P. Nigam – Three-quark fusion in a proton electromagnetic vertex.

467 S. M. Bilenky and B. Pontecorvo – Neutrino oscillations with large oscillation length in spite of large (Majorana) neutrino masses?

472 W. D. Montgomery – A class of self-time–reversing wave fields.

477 V. Carfì – Sull'esistenza e l'unicità del problema di Cauchy per un fluido relativistico conduttore di calore.

N. 14 6 Agosto 1983

pag.

481 R. Bonifacio – A coarse grained description of time evolution: irreversible state reduction and time-energy relation.

490 S. M. Moore – Radiation balance and the stochastic Van der Pol-Duffing equation.

495 Cai Xu and Liu Lian-sou – On the scaling behaviour of multiplicity distribution at $\sqrt{s} = 540$ GeV and the three-fireball model

501 E. Prugovečki – Finite charge and field renormalizations in reciprocally invariant quantum electrodynamics.

505 A. Papp and R. M. Santilli – A conceivable lattice structure of the Coulomb law.

509 J. P. Hsu and T. Y. Shi – Are gauge symmetry and phase invariance identical?

N.15 13 Agosto 1983

pag.

513 P. P. Delsanto – A graphical method to evaluate vacuum expectation values of products of creation and annihilation operators.

520 E. R. Williams and G. T. Gillies – Electrometer designs for use in an unbound-quark search.

525 S. Prakash and S. R. Roy – A note on electromagnetic «tidal» force.

pag.
529 G. Cicogna – Periodic solutions of some nonlinear evolution equations.
533 G. Giaquinta and C. Di Mauro – On the reduced diamagnetism in 2D superconductors by vortex-antivortex pair condensation.
539 M. Carlevaro and D. Paoletti – Atospheric-pollution monitoring through conductivity measurements.
544 G. E. Dorrington – Spin, circulation, angular momentum and cosmological large numbers (Erratum).

N. 16 20 Agosto 1983
pag.
545 R. M. Santilli – Lie-isotopic lifting of the special relativity for extended deformable particles.
556 K. Sundermeyer – Auxiliary « fields » for the massive spinning relativistic particle.
561 G. Maino and A. Ventura – On the parity dependence of nuclear level densities.
569 J Cleymans and P. S. Ray – An exotic decay of orthopositronium?
573 G. Calucci – Phenomenological electromagnetism with magnetic poles.
576 Jia-Zhu Wang – The renormalized coupling constant in an open static Einstein universe (Erratum).

N. 17 27 Agosto 1983
pag.
577 T. Miyazaki and K. Kuniyoshi – Role of the production of a pseudoscalar meson with an e^+e^--pair in e^+e^- collisions.
583 C. Di Bartolo – Quantization of the tensor gauge field of second rank in any gauge.
588 A. Palumbo – Nonlinear tridimensional propagation of acoustic waves in radiative gas dynamics.
593 A. Papp – Dispersion approach to the quantum-mechanical stability.
600 P. Mukhopadhyay – On the modification of the estimated masses of the cryptoexotics.
605 V. De Sabbata and M. Gasperini – The anthropic principle and the actual size of the Universe.